IP Link® Device Interface Communication Sheet

This document provides additional assistance with wiring your Extron IP Link enabled product to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific Extron IP Link enabled product or the controlled device manufacturer supplied documentation.

Device Specifications:

Device Type: Display
Manufacturer: Samsung
Firmware Version: N/A
Model(s): ME32C, ME40C, ME46C, ME55C, ME75C

Version History:

Driver Version	Date	IP Link Compiler	GC Version	Notes
3	1/6/2014	1.6.0	3.5.1	Extron Certified version. Tested on ME40C model. Added commands based on the new protocol manual.
2	12/17/2013	1.6.0	3.5.1	Added model ME75C.
1	7/1/2013	1.6.0	3.5.0	Initial version.

Driver Notes:

- Driver has been optimized for Volume.
- Device ID is set to default of 1.
- Device ID Broadcast does not support status.

If the channel you desire is 12 on an Analog Signal
- Select Analog under Signal Select.
- Select Cable under Tuner Mode.
- Select 1 and 2
- Select Enter.

If the channel you desire is 12.15 on a Digital Signal
- Select Digital under Signal Select.
- Select Air under Tuner Mode
- Select 1 and 2
- Select '.'
- Select 1 and 5
- Select Enter

Control Commands & States:

Aspect Ratio	16:9	4:3	Auto Wide
	Zoom	Zoom 1	Zoom 2
	Just Scan	Wide Zoom	Wide Fit
	Custom	Smart View 1	Smart View 2
Audio Mute	On	Off	
Auto Image	Execute		
Channel TV (Step)	Up	Down	
Channel	0 to 9	.	Clear
	Enter		
Device ID	0 to 99	Broadcast	
Executive Mode 1[1]	On	Off	
Executive Mode 2[2]	On	Off	
Executive Mode 3[3]	On	Off	
Input	PC	DVI	DTV
	HDMI 1	HDMI 2	Display Port
	MagicInfo Lite	AV	Component
	MagicInfo		
On Screen Display	On	Off	
PIP Input	PC	DVI	DTV
	HDMI 1	HDMI 2	Display Port
	MagicInfo Lite	AV	Component
	MagicInfo		
PIP Mode	On	Off	
PIP Position	Upper Left	Upper Right	Lower Right
	Lower Left		
PIP Size	Medium	Small	Wide
	Side by Side	Right	Off

Power Control	On	Off
Signal Select	Analog	Digital
Tuner Mode	Air	Cable
Video Wall Mode	Full	Natural
Volume (Discrete)	0 to 100 in steps of 1	

[1]Mode 1 is Safety Lock
[2]Mode 2 is Panel Lock
[3]Mode 3 is All Lock

Status Available:

Aspect Ratio	16:9	4:3	Auto Wide
	Zoom	Zoom 1	Zoom 2
	Just Scan	Wide Zoom	Wide Fit
	Custom	Smart View 1	Smart View 2
Audio Mute	On	Off	
Connection Status	Connected	Disconnected	Status Unavailable
Executive Mode 1	On	Off	
Executive Mode 2	On	Off	
Executive Mode 3	On	Off	
Input	PC	DVI	DTV
	HDMI 1	HDMI 2	Display Port
	MagicInfo Lite	AV	Component
	MagicInfo		
Major Channel*	Value		
Minor Channel*	Value		
On Screen Display	On	Off	
PIP Input	PC	DVI	DTV
	HDMI 1	HDMI 2	Display Port
	MagicInfo Lite	AV	Component
	MagicInfo		
PIP Mode	On	Off	
PIP Position	Upper Left	Upper Right	Lower Right
	Lower Left		
PIP Size	Medium	Small	Wide
	Side by Side	Right	Off
Power Control	On	Off	
Video Wall Mode	Full	Natural	

Volume (Discrete)	0 to 100 in steps of 1

*Major and Minor Channel do not provide real status.

MLC60 Series Supported Commands:

Aspect Ratio	16:9	4:3	Auto Wide
	Zoom	Zoom 1	Zoom 2
	Just Scan	Wide Zoom	Wide Fit
	Custom	Smart View 1	Smart View 2
Audio Mute	On	Off	
Auto Image	Execute		
Channel TV (Step)	Up	Down	
Executive Mode 1	On	Off	
Executive Mode 2	On	Off	
Executive Mode 3	On	Off	
Input	PC	DVI	DTV
	HDMI 1	HDMI 2	Display Port
	MagicInfo Lite	AV	Component
	MagicInfo		
On Screen Display	On	Off	
PIP Input	PC	DVI	DTV
	HDMI 1	HDMI 2	Display Port
	MagicInfo Lite	AV	Component
	MagicInfo		
PIP Mode	On	Off	
PIP Position	Upper Left	Upper Right	Lower Right
	Lower Left		
PIP Size	Medium	Small	Wide
	Side by Side	Right	Off
Power Control	On	Off	
Video Wall Mode	Full	Natural	
Volume (Discrete)	0 to 100 in steps of 1		

Cable and Adapter Requirements:

F/F RS232 DB9 Null modem cable

Notes for the Device:

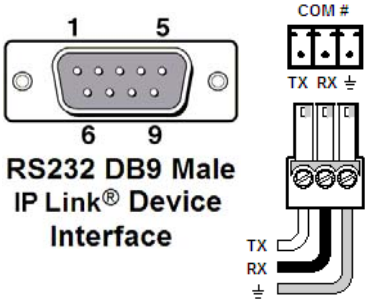
Please contact the manufacturer for enabling serial port.

To enter service menu: Make sure display is Off, and then rapidly press the following keys “Mute, 1, 8, 2, Power”. After entering service mode go to Control, then Sub Option, and then set the RS-232 Jack and select UART.

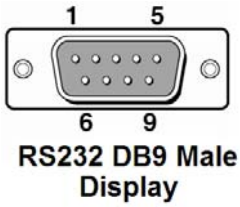
Serial communication:

Port Type:	RS-232	**Parity:**	None
Baud Rate:	9600	**Stop Bits:**	1
Data Bits:	8	**Flow Control:**	None

Pin Assignments Diagram:



Signal	Pin	Main Cable	Pin	Signal
RxD	2		2	RxD
TxD	3		3	TxD
GND	5		5	GND



Note: Captive screw connector may also be used as a serial connection.

General Notes: